

**WHAT IS CLAIMED IS:**

1. A mobile communication system comprising:

5 a determination unit configured to determine as to layers of data to be transmitted by base stations to mobile stations for respective radio areas, based on area resource information concerning radio resources for the respective radio areas covered by the base stations; and

10 a radio transmitter configured to transmit the data to the mobile stations according to a determination of the determination unit.

2. A radio network controller comprising:

15 a determination unit configured to determine as to layers of data to be transmitted by base stations to mobile stations for respective radio areas, based on area resource information concerning radio resources for the respective radio areas covered by the base stations; and

20 a data transmitter configured to transmit the data to the base stations according to a determination of the determination unit.

3. The radio network controller of claim 2, wherein

25 the determination unit determines the layers from among the data being layered, and

the data transmitter transmits the data of the layers determined by the determination unit.

4. The radio network controller of claim 2, wherein

30 the determination unit determines layering methods for layering the data, further comprising:

a layered data converter configured to layer the data for the respective radio areas using the layering methods determined by the determination unit, wherein

35 the data transmitter transmits the data layered by the

converter.

5. The radio network controller of claim 2, further comprising:  
a resource information receiver configured to receive the  
5 area resource information from the base stations,  
the determination unit determines based on the area resource  
information received by the resource information receiver.

6. A base station comprising:

10 a determination unit configured to determine as to layers  
of data to be transmitted to mobile stations for respective radio  
areas, based on area resource information concerning radio  
resources for the respective radio areas covered by the base  
station; and

15 a radio transmitter configured to transmit the data to the  
mobile stations according to a determination of the determination  
unit.

7. The base station of claim 6, wherein

20 the determination unit determines the layers from among  
the data being layered, and

the radio transmitter transmits the data of the layers  
determined by the determination unit.

8. The base station of claim 6, wherein

25 the determination unit determines layering methods for  
layering the data, further comprising:

a layered data converter configured to layer the data for  
the respective radio areas using the layering methods determined  
30 by the determination unit, wherein

the radio transmitter transmits the data layered by the  
converter.

9. The base station of claim 6, further comprising:

35 a resource information collection unit configured to

collect the area resource information, wherein  
the determination unit determines based on the area resource  
information collected by the resource information collection  
unit.

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10. A base station comprising:

a notification unit configured to notify a radio network  
controller of area resource information concerning radio  
resources for respective radio areas covered by the base station;

10 a data receiver configured to receive data being layered  
for the respective radio areas transmitted from the radio network  
controller based on the area resource information notified by  
the notification unit; and

15 a radio transmitter configured to transmit the data received  
by the data receiver to mobile stations for the respective radio  
areas.

11. The base station of claim 10, further comprising:

20 a resource information collection unit configured to  
collect the area resource information, wherein  
the notification unit notifies of the area resource  
information collected by the resource information collection  
unit.

25 12. A communication method comprising:

determining as to layers of data to be transmitted by base  
stations to mobile stations for respective radio areas, based  
on area resource information concerning radio resources for the  
respective radio areas covered by the base stations; and

30 transmitting the data to the mobile stations according to  
a determination.